

**SYSTEM OR METHOD FOR CLASSIFYING  
TARGET INFORMATION CAPTURED BY A SENSOR**

**ABSTRACT OF THE DISCLOSURE**

The disclosure describes a system and method for classifying information relating to target attributes that are captured by a sensor (collectively “classification system”). A wide variety of sensors, classification categories (including potentially classes and groups of classes), targets, and purposes can influence the processing performed by the classification system. The classification system is not forced to arbitrarily identify a single class as the appropriate classification if two or more classes cannot be adequately distinguished from one another given the particular target attributes and processing results. The classification system can generate a classification relating to a group of classes, with the group including one, two, or even more than two classes, if such a conclusion is appropriate. Historical attributes, environmental factors, relevant events and the plausibility of transitions from one class to another, can be incorporated into the classification process.